



SPEC SHEET - GAS/AIR PAGE 2 OF 3  
 S.O. NO. 4090433 BURNER S/N 43336-1  
 BURNER ORDERED  P.O. NO. 6025 IN STOCK

BURNER MFG INDUSTRIAL COMBUSTION MODEL LNDLG - 420P - 30  
 FUELS: GAS TYPE NATURAL # 2 OIL-AIR ATOMIZING  
 FIRING RATE: GAS 33475 CFH OF 1000 BTU/CF 239 GPH OF 140,000 BTU/GAL  
 BURNER OPERATION: HI-LOW-OFF W/L.F.S.  FULL MODULATION  ALTITUDE 5400 FT. OR LESS  
 AVAILABLE GAS PRESSURE 5-7# VOLTAGE: 208 VOLT 60 HZ 3 PH  
 CODES: UL  CSD-1  IRI  FM  NFPA 8501  OTHER

CONTROL PANEL: MOUNTED  RS  LS   
 BOILER  SKID  BURNER  REMOTE   
 POWER ON SWITCH  FUEL CHANGEOVER SW.   
 MANUAL POTENTIOMETER   
 CONTROL TRANSFORMER TF500D3   
 FLAME SAFEGUARD RM7800L 1012   
 FLAME DETECTOR C7027A 1023   
 AMPLIFIER R7849A 1023

INDICATING LAMPS  LAMP ALARM  
 POWER ON  ALARM   
 FUEL ON  LOW WATER   
 CALL FOR HEAT  HIGH WATER   
 IGNITION ON  FLAME FAILURE   
 ALARM BELL  HORN  W/SIL. SW.

MOTOR: HP STARTER SIZE HEATER  
 BLOWER 60  
 AIR COMPRESSOR 15  
 LOOSE  MOUNT  RS  LS

GAS TRAIN: RS  LS   
 MOUNTED  UNMOUNTED  SIZE

IGNITION: GAS/ELECTRIC  TYPE   
 DIRECT SPARK OIL   
 IGNITION TRANSFORMER GAS  VOLTAGE   
 OIL  VOLTAGE   
 GAS PILOT: SHUTOFF VALVE T-FP600 SIZE 1/2"  
 PRESSURE REGULATOR 325-3 SIZE 1/2"  
 SOLENOID VALVE X8215C2015241 SIZE 1/2"

MAIN SHUTOFF COCK R1430 4"  
 PRESSURE REGULATOR 122-12 3"  
 SAFETY GAS VALVE H117AN112F1F36V16 4"  
 ACTUATOR   
 N.O. VENT VALVE JB821483 2"  
 MAIN GAS VALVE H117AN112F1F26V16 4"  
 ACTUATOR   
 CHECKING COCK R1430 3"  
 FIRING RATE VALVE BV 4"  
 LOW GAS PRESS. SW. C437E 1012 RG 1/2-5#  
 HIGH GAS PRESS. SW. C437D 1013 RG 1/2-4#  
 MANIFOLD GAS PRESS. GA. FIG. 83K RG 0-35"

AIR FLOW SWITCH ANTUNES 8024200202  
 FIRING RATE MOTOR M9184  
 CAM METERING   
 FGR PIPING: RS  LS  SIZE 10"

SPECIAL INSTRUCTIONS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**FORM P-2 MANUFACTURERS' DATA REPORT FOR ALL TYPES OF BOILERS  
EXCEPT WATERTUBE AND ELECTRIC  
As Required by the Provisions of the ASME Code Rules, Section I**

1. Manufactured by Superior Boiler Works, Inc.; 3524 E. 4th Avenue; Hutchinson, KS 67501  
(Name and address of Manufacturer)

2. Manufactured for Fore Runner Corp.; 3900 S. Wadsworth Blvd. #600; Lakewood, CO 80235  
(Name and address of purchaser)

3. Location of Installation Federal Correctional Institute; 9595 W. Quincy Ave.; Littleton, CO 80123  
(Name and address)

4. Type Scotch Marine Boiler No. 15415 \_\_\_\_\_ 144-000-400 \_\_\_\_\_ 15415 Year Built 2003  
(HRT, etc.) (Mfr's. Serial No.) (CRN) (Drawing No.) (Nat'l Board No.)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to Section I of the ASME Boiler and Pressure Code \_\_\_\_\_ 2001  
(Year)

Addenda to 2002 \_\_\_\_\_, and Code Cases \_\_\_\_\_  
(Date) (Numbers)

Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors are attached for the following items of this report:  
\_\_\_\_\_  
(Name of part, item number, mfr's. name and identifying stamp)

6. Shells or drums: 1 \_\_\_\_\_ SA516-70 \_\_\_\_\_ 625" \_\_\_\_\_ 116" \_\_\_\_\_ 215.5" \_\_\_\_\_  
(no.) (mat'l. spec. gr.) [thickness (in.)] [dia (ID)] (length, inside) [dia (ID)] (length, inside)

7. Joints: Welded \_\_\_\_\_ 100% \_\_\_\_\_ Welded \_\_\_\_\_ 2 \_\_\_\_\_  
[long (seamless, welded)] [efficiency (as compared to seamless)] [girth (seamless, welded)] (no. of shell courses)

8. Heads NA  
(Material Specification No.: Thickness - Flat, Dished, Ellipsoidal - Radius of Dish)

9. Tubesheet (2) SA516-70 .750" \_\_\_\_\_ Tube Holes \_\_\_\_\_ 2,525" \_\_\_\_\_  
(Mat'l. Spec., Grade, Thickness) (Dia.)

Boiler Tubes: No. 348 \_\_\_\_\_ SA178A \_\_\_\_\_ Straight \_\_\_\_\_  
(Mat'l. Spec., Grade) (Straight or Bent)

Dia 2.5" \_\_\_\_\_ Length 216" \_\_\_\_\_ Gauge .105" \_\_\_\_\_  
(if various, give max & min) (or thickness)

11. Furnace No. 1 \_\_\_\_\_ Size 50" \_\_\_\_\_ Length, each section \_\_\_\_\_ Total 218.5" \_\_\_\_\_  
(O.D. or W x H)

Type Corrugated  
(Plain, Adamson, Ring Reinforced, Corrugated, Combined, or Stayed)

SA516-70 .5" \_\_\_\_\_ Seams: Type Welded \_\_\_\_\_  
(Mat'l. Spec., Grade, Thickness) (Seamless, Welded)

12. Staybolts: No. \_\_\_\_\_ Size \_\_\_\_\_  
(Dia, Mat'l. Spec. Grade, Size Telltale, Net Area)

Pitch \_\_\_\_\_ MAWP \_\_\_\_\_ psi.  
(Hor. And Vert.)

13 Stays or braces:

Location	Material Spec. No.	Type	No. and Size	Max. Pitch	Fig. PFT-32 L/I	Dist. Tubes to Shell	MAWP, psi
(a) F.H. above tubes	SA675-70	Diagonal	11-1.375"	11.5"	1.18	24.750"	150
(b) R.H. above tubes	SA675-70	Diagonal	11-1.375"	11.5"	1.18	24.750"	150
(c) F.H. below tubes	_____	_____	_____	_____	_____	_____	_____
(d) R.H. below tubes	_____	_____	_____	_____	_____	_____	_____
(e) Through stays	_____	_____	_____	_____	_____	_____	_____
(f) Dome braces	_____	_____	_____	_____	_____	_____	_____

14. Other Parts 1. LWCO Conn. \_\_\_\_\_ 2 Surface Blowdown Conn. \_\_\_\_\_ 3 Auxiliary Conn. \_\_\_\_\_  
(Brief Description - i.e., Dome, Boiler Piping, etc.)

1	SA105	4-1"	.210"	150 PSI
2	SA105	1-1"	.210"	150 PSI
3	SA105	1-2"	.297"	150 PSI

(Mat'l. Spec., Grade, Size, Material Thickness, MAWP)



